	Application No.	Applicant(s)
Nation of Allowahility	10/655,970	EISENHOWER ET AL.
Notice of Allowability	Examiner	Art Unit
	William E. Tapolcai	3744
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in t i) or other appropriate commun RIGHTS. This application is sul 3 and MPEP 1308.	his application. If not included ication will be mailed in due course. THIS
1. This communication is responsive to the amendment filed	l on June 25, 2004.	
2. The allowed claim(s) is/are 2-5 and 7-22.		
3. \boxtimes The drawings filed on <u>25 June 2004</u> are accepted by the l	Examiner.	
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	re been received. re been received in Application	No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give		
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date 	rson's Patent Drawing Review (
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFR	drawings in the front (not the back) of 1.121(d).
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	rmal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/ Paper No./Mail Date		ail Date mendment/Comment
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's St	atement of Reasons for Allowance
of Biological Material	9.	
		William E. Tapolcai Primary Examiner Art Unit: 3744
U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)	otice of Allowability	Part of Paper No./Mail Date 20040714

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The following is an examiner's statement of reasons for allowance: the claims are allowable because the prior art of record fails to disclose or teach the recited step of adapting the model to obtain a high pressure of the system by modifying the variable coefficients such that the model output of the model equals the system output of the system (claim 7), or the recited steps 1-5 of claim 10, or the recited steps 1-7 of claim 11, or the steps of operating the transcritical vapor compression system by operating the system based on a model and by adapting the model to obtain a desired high pressure of the system, exciting the system with a signal to generate a system output, comaring the system output with a model output, and adjusting the high pressure of the system by adjusting a flow rate of the cooling fluid of the refrigerant (claim 22).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William E. Tapolcai whose telephone number is (703) 308-2640. The examiner can normally be reached on Mon. - Thurs., 6:30 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Denise L. Esquivel can be reached on (703) 308-2597. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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